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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/577,025	03/05/2007	Marianna Foldvari	58152-8001.US00	2769
²²⁹¹⁸ PERKINS COI	7590 08/17/200 E LLP	9	EXAMINER	
P.O. BOX 1208			NGUYEN, QUANG	
SEATTLE, WA 98111-1208			ART UNIT	PAPER NUMBER
			1633	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/577,025	FOLDVARI ET AL.				
Office Action Summary	Examiner	Art Unit				
	QUANG NGUYEN, Ph.D.	1633				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1,704(b).						
Status						
1) Responsive to communication(s) filed on						
3) Since this application is in condition for allowan	<u> </u>					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-11 and 20-23</u> is/are pending in the a	application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) ☐ Claim(s) is/are objected to.						
8)⊠ Claim(s) <u>1-11 and 20-23</u> are subject to restriction	on and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner	·.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	9 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)	A) 🔲 Intonéassa Commencia	(PTO 412)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P	atent Application				
Paper No(s)/Mail Date	6)					

DETAILED ACTION

Claims 1-11 and 20-23 are pending in the present application, and they are subjected to the following restrictions.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 1-11, drawn to a topical delivery system comprising a Gemini surfactant in admixture with a biological active agent.

Group II, claims 20-22, drawn to a method for treatment of a skin disorder comprising topically delivering a delivery system comprising a Gemini surfactant in admixture with a biological active agent.

Group III, claim 23, drawn to a method for treatment of a metabolic disease comprising topically delivering a delivery system comprising a Gemini surfactant in admixture with a biological active agent.

The technical feature linking Groups I-III appears to be that they all relate to a topical delivery system comprising a Gemini surfactant in admixture with a biological active agent. It is further noted that the delivery system is at least in the form of a cream, a lotion, a paste, an ointment, a foam, a gel, a lipid formulation, an emulsion, a solution or a suspension (see at least claim 8).

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At the effective filing date of the present application (10/03/2003), Camilleri et al (WO 99/29712; IDS) already disclosed at least a mixture of peptide-based Gemini compounds and polynucleotides for gene therapy and genetic immunization in whole organisms as well for transfection of polynucleotides in cells in culture (pages 5-6). In an exemplification, such mixture is in a serum-free solution medium (see at least example 17, page 25, second paragraph), and therefore it would also be suitable for topical delivery. Accordingly, the mixture solution containing peptide-based Gemini compounds and polynucleotides of Camilleri et al falls within the breadth of a topical delivery system as broadly claimed.

Therefore, the technical feature linking the inventions of Groups I-III does not constitute a special technical feature a defined by PCT Rule 13.2, as it does not differentiate the claimed subject matter a whole over the prior art. Since according to Rule 13.2 PCT the presence of such a common or corresponding special technical feature is an absolute prerequisite for unity to be established, and given that there does not appear to be any other technical feature common to the claimed subject matter as a whole which might be able to fulfill this role, the currently claimed subject matter lacks unity of invention according to Rule 13.1 PCT.

Consequently, the claimed subject matter is restricted into the above Groups of Inventions for the following reasons.

Inventions I and II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case, the topical delivery system of Group I can be used for treatment of a metabolic disease of Group III.

Inventions I and III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case, the topical delivery system of Group I can be used for treatment of a skin disorder of Group II.

Inventions II and III are drawn to different methods having different desired therapeutic end-results. For example, the method of Group II is directed to the treatment of a skin disorder, whereas the method of Group III is drawn to the treatment of a metabolic disease.

Because the currently claimed subject matter lacks unity according to Rule 13.1 PCT for the reasons set forth above, restriction for examination purposes as indicated is proper.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a

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matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

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Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17 (h).

Species restriction:

A. Should Applicants elect Group I, this application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

- 1. (a) anionic gemini surfactant; (b) a gemini cationic surfactant; (c) a neutral gemini surfactant; (d) an amphoteric gemini surfactant; (e) a single specific mixture of (a)-(d).
- 2. (a) a cream; (b) a lotion; (c) a paste; (d) an ointment; (e) a foam; (f) a gel; (g) a lipid formulation; (h) an emulsion; (i) a solution; and (j) a suspension.

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3. (a) DOPE; (b) cholesterol; (c) diethylene glycol monoethyl ether; (d)

polyglyceryl 3-diisostearate; (e) PEG-8 caprylic; (f) capric glycerides; and (g)

octyldodecyl myristate.

B. Should Applicants elect Group II, this application contains claims

directed to more than one species of the generic invention. These species are deemed

to lack unity of invention because they are not so linked as to form a single general

inventive concept under PCT Rule 13.1.

The species of a skin disorder are as follows:

(a) scheroderma, (b) atopic dermatitis; and (c) psoriasis.

<u>C. Should Applicants elect Group III</u>, this application contains claims

directed to more than one species of the generic invention. These species are deemed

to lack unity of invention because they are not so linked as to form a single general

inventive concept under PCT Rule 13.1.

The species of a metabolic disease are as follows:

(a) gyrate atrophy; (b) maternal hyperphenylalaninemia; (c) familial

hypercholesterolemia; and (d) phenylkeonuria.

Applicant is required, in reply to this action, to elect a single species to which the

claims shall be restricted if no generic claim is finally held to be allowable. The reply

must also identify the claims readable on the elected species, including any claims

subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons:

Each of the aforementioned species is different structurally and has different properties one from the others, and with respect to skin disorder and/or metabolic disease each of the recited disorder or disease has different symptoms, causes and progression one from the others. Therefore, each different structure or different skin disorder/metabolic disease can be considered to be a "special technical feature"; and therefore the listed species lack the same or corresponding special technical features.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quang Nguyen, Ph.D., whose telephone number is (571) 272-0776.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's SPE, Joseph T. Woitach, Ph.D., may be reached at (571) 272-0739.

To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Group Art Unit 1633; Central Fax No. (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

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/QUANG NGUYEN/
Primary Examiner, Art Unit 1633